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### [1 Dynamic fault-tolerant clock synchronization](#)

Danny Dolev, Joseph Y. Halpern, Barbara Simons, Ray Strong

January 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 1Full text available: [pdf\(3.41 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper gives two simple efficient distributed algorithms: one for keeping clocks in a network synchronized and one for allowing new processors to join the network with their clocks synchronized. Assuming a fault-tolerant authentication protocol, the algorithms tolerate both link and processor failures of any type. The algorithm for maintaining synchronization works for arbitrary networks (rather than just completely connected networks) and tolerates any number of processor or communicat ...

**Keywords:** Byzantine failures, clock synchronization, fault-tolerance, time-of-day clock

### [2 Text analysis: Natural language text segmentation techniques applied to the automatic compilation of printed subject indexes and for online database access](#)

G. Vladutz

February 1983 **Proceedings of the first conference on Applied natural language processing**Full text available: [pdf\(707.48 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#)
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The nature of the problem and earlier approaches to the automatic compilation of printed subject indexes are reviewed and illustrated. A simple method is described for the detection of semantically self-contained word phrase segments in title-like texts. The method is based on a predetermined list of acceptable types of nominative syntactic patterns which can be recognized using a small domain-independent dictionary. The transformation of the detected word phrases into subject index records is d ...

### [3 Transportability to other languages: the natural language processing project in the AI program at MCC](#)

Jonathan Slocum, Carol F. Justus

April 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 2Full text available: [pdf\(2.10 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms, review

We discuss a recently launched, long-term project in natural language processing, the primary concern of which is that natural language applications be transportable among human languages. In particular, we seek to develop system tools and linguistic processing techniques that are themselves language-independent to the maximum extent practical. In this paper we discuss our project goals and outline our intended approach, address some cross-linguistic requirements, and then present some new ...

**4 Technique for automatically correcting words in text**

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(6.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

**Keywords:** n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

**5 Function Evaluation in Unnormalized Arithmetic**

R. L. Ashenhurst

April 1964 **Journal of the ACM (JACM)**, Volume 11 Issue 2

Full text available: pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The evaluation of a function of one argument is a standard computational task. When an unnormalized number representation is used, it is appropriate that function evaluation to subject to certain "adjustment" criteria, defined independently of the computing method. In this paper some such criteria are developed, and their application described. In particular, consideration is given to questions of the extent to which general principles apply (i.e. for large classes of ...

**6 Some contributions to the metatheory of the situation calculus**

Flora Pirri, Ray Reiter

May 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 3

Full text available: pdf(241.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We focus on a rich axiomatization for actions in the situation calculus that includes, among other features, a solution to the frame problem for deterministic actions. Our work is foundational in nature, directed at simplifying the entailment problem for these axioms. Specifically, we make four contributions to the metatheory of situation calculus axiomatizations of dynamical systems: (1) We prove that the above-mentioned axiomatization for actions has a relative satisfiability ...

**Keywords:** programming languages for the situation calculus, regression, situation calculus, theorem-proving

7 Intelligent database caching through the use of page-answers and page-traces



Nabil Kamel, Roger King

December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Full text available: [pdf\(3.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of page-answers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

**Keywords:** artificial intelligence, databases, page access

8 Evaluating ethical decision making and computer use



Karen D. Loch, Sue Conger

July 1996 **Communications of the ACM**, Volume 39 Issue 7

Full text available: [pdf\(280.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

9 Engineering Applications: Constraint-based design of optimal transport elements



Michael Drumheller

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: [pdf\(492.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An airliner contains thousands of transport elements, such as tubes, hoses, and wires. Transport elements must be designed subject to many constraints. Some are extrinsic, involving factors such as clearance, slope, and stay-out/stayin zones. Others are intrinsic, involving factors such as bend angles and bend radii. A key problem is to design a feasible route that runs from A to B optimally (e.g., as short as possible). We describe an algorithm that allows "sketching" a route in terms of constr ...

**Keywords:** constraintbased, design, multi-criteria or multi-objective optimization, piping, routing, transport elements, tubing

10 On computing condition numbers for the nonsymmetric eigenproblem



Z. Bai, James Demmel, A. McKenney

June 1993 **ACM Transactions on Mathematical Software (TOMS)**, Volume 19 Issue 2

Full text available: [pdf\(1.35 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We review the theory of condition numbers for the nonsymmetric eigenproblem and give a tabular summary of bounds for eigenvalues, means of clusters of eigenvalues, eigenvectors, invariant subspaces, and related quantities. We describe the design of new algorithms for estimating these condition numbers. Fortran subroutines implementing these algorithms are in the LAPACK library [1].

**Keywords:** LAPACK, Schur decomposition, Sylvester equation, condition numbers, invariant subspace, nonsymmetric

11 DIAGRAM: a grammar for dialogues



Jane J. Robinson

January 1982 **Communications of the ACM**, Volume 25 Issue 1

Full text available: [pdf\(2.11 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An explanatory overview is given of DIAGRAM, a large and complex grammar used in an artificial intelligence system for interpreting English dialogue. DIAGRAM is an augmented phrase-structure grammar with rule procedures that allow phrases to inherit attributes from their constituents and to acquire attributes from the larger phrases in which they themselves are constituents. These attributes are used to set context-sensitive constraints on the acceptance of an analysis. Constraints can be i ...

**Keywords:** annotations, attribute inheritance, augmented rules, contextual constraints, dialogue, likelihoods, metarules, phrase-structure grammar, transformations

12 A comparative study of language support for generic programming



Ronald Garcia, Jaakko Jarvi, Andrew Lumsdaine, Jeremy Siek, Jeremiah Willcock

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 38 Issue 11

Full text available: [pdf\(237.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many modern programming languages support basic generic programming, sufficient to implement type-safe polymorphic containers. Some languages have moved beyond this basic support to a broader, more powerful interpretation of generic programming, and their extensions have proven valuable in practice. This paper reports on a comprehensive comparison of generics in six programming languages: C++, Standard ML, Haskell, Eiffel, Java (with its proposed generics extension), and Generic C. By implementi ...

**Keywords:** C#, C++, Eiffel, Haskell, Java, generic programming, generics, polymorphism, standard ML

13 Region representation: boundary codes from quadtrees



Charles R. Dyer, Azriel Rosenfeld, Hanan Samet

March 1980 **Communications of the ACM**, Volume 23 Issue 3

Full text available: [pdf\(850.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

There has been recent interest in the use of quadtrees to represent regions in an image. It thus becomes desirable to develop efficient methods of conversion between quadtrees and other types of region representations. This paper presents an algorithm for converting from quadtrees to a simple class of boundary codes. The algorithm is shown to have an execution time proportional to the perimeter of the region.

**Keywords:** borders, chain codes, data structures, quadtrees, regions

14 A quadtree medial axis transform



Hanan Samet

September 1983 **Communications of the ACM**, Volume 26 Issue 9

Full text available: [pdf\(1.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Quadtree skeletons are exact representations of the image and are used because they are

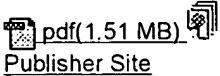
observed to yield space efficiently and a decreased sensitivity to shifts in contrast with the quadtree. The QMAT can be used as the underlying representation when solving most problems that can be solved by using a quadtree. An algorithm is presented for the computation of the QMAT of a given quadtree by only examining each BLACK node's adjacent ...

**Keywords:** medial axis transforms, quadtrees, shape, size, skeletons

**15 A phrase-structured grammatical framework for transportable natural language processing** 

Bruce W. Ballard, Nancy L. Tinkham  
April 1984 **Computational Linguistics**, Volume 10 Issue 2

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

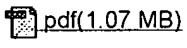
[Publisher Site](#)

We present methods of dealing with the syntactic problems that arise in the construction of natural language processors that seek to allow users, as opposed to computational linguists, to customize an interface to operate with a new domain of data. In particular, we describe a *grammatical formalism*, based on augmented phrase-structure rules, which allows a parser to perform many important domain-specific disambiguation by reference to a pre-defined grammar and a collection of auxiliary f ...

**16 Towards a semantic theory for equational programming languages** 

Satish R. Thatte  
August 1986 **Proceedings of the 1986 ACM conference on LISP and functional programming**

Full text available:

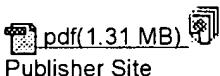


Additional Information: [full citation](#), [references](#)

**17 Making DATR work for speech: lexicon compilation in SUNDIAL** 

François Andry, Norman M. Fraser, Scott McGlashan, Simon Thornton, Nick J. Youd  
September 1992 **Computational Linguistics**, Volume 18 Issue 3

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

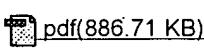
[Publisher Site](#)

We present DIALEX, an inheritance-based tool that facilitates the rapid construction of linguistic knowledge bases. Simple lexical entries are added to an application-specific DATR lexicon that inherits morphosyntactic, syntactic, and lexico-semantic constraints from an application independent set of structured base definitions. A lexicon generator expands the DATR lexicon out into a disjunctive normal form lexicon. This is then encoded either as an acceptance lexicon (in which the constraining ...

**18 Specification and dialogue control of visual interaction through visual rewriting systems** 

P. Bottoni, M. F. Costabile, P. Mussio  
November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 21 Issue 6

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between human and computer are images appearing on the computer screen, as usual in current popular user interfaces. We formalize interactive sessions of a human-computer dialogue as a

structured set of legal visual sentences, i.e., as a visual languag ...

**Keywords:** control automaton, dialogue control, visual languages

**19 Toward visual debugging: integrating algorithm animation capabilities within a source-level debugger** 

Sougata Mukherjea, John T. Stasko

September 1994 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 1 Issue 3

Full text available:  pdf(1.87 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Much of the recent research in software visualization has been polarized toward two opposite domains. In one domain that we call data structure and program visualization, low-level canonical views of program structures are generated automatically. These types of views, which do not require programmer input or intervention, can be useful for testing and debugging software. Often, however, their generic, low-level views are not expressive enough to convey adequately how a pro ...

**Keywords:** algorithm animation, debugging, programming environments, software visualization, user interfaces

**20 On the use of the linear assignment algorithm in module placement** 

Sheldon B. Akers

June 1981 **Proceedings of the 18th conference on Design automation**

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper examines the application of the computationally powerful linear assignment algorithm to the placement problem. A brief description of the algorithm is given, followed by a discussion of its use with various problem constraints, for improving existing placements, and in a constructive-initial placement procedure. Several examples are included.

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